



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

429-002/A

Vendor Code : 23505	Enquiry No	Enquiry Date	Due Date for Quotation
Vendor Name : Open Tender Dummy Code Australia	2681400035	16.12.2014	13.01.2015
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. <u>Bid should be submitted in Two Parts. 1. Techno-commercial Bid (Part-I) and 2. Price Bid (Part-II) in a separate sealed cover and both the covers must be placed in a Third Cover and Sealed. Our Enquiry No., Enq. date & Enq. Due date must be written on all Three covers.</u>			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	DESIGN,SUPPLY,INSTALLATION AND COMMISSIONING OF FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR 20 TORCH MPM/BAY1/BUILDING 50 AS PER THE FOLLOWING DATA AND SPECIFICATIONS. AS PER THE QUALIFYING CRITERIA - PART A - 20 TORCH AND SPECIFICATION - PART B - 20 TORCH.	NO	1.000	1.00	16.03.15
20	DESIGN,SUPPLY,INSTALLATION AND COMMISSIONING OF FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR STBW/BAY A/BUILDING 50 AS PER THE FOLLOWING DATA AND SPECIFICATIONS. AS PER THE QUALIFYING CRITERIA - PART A - STBW AND SPECIFICATION- PART B - STBW.	NO	6.000	6.00	16.03.15

General Note:

1. Please submit your detailed offer in two part bid system i.e Part-I. Technical bid+ Checklist (Annexure-A) + unpriced bid with indicating taxes & duties (Annexure-B) in a sealed cover super scribing on the cover as "TECHNICAL & COMMERCIAL BID / PART-II" Part-II. Priced offer in another separate sealed cover super scribing on the cover as Part-II


Both the covers shall be duly super-scribed with tender reference and due date of opening. These covers shall be put in a single cover duly super-scribed with tender reference and due date of opening and addressed to us.

2. Point-to-point confirmation to BHEL's specification and commercial terms & conditions shall be provided Annexure-A. All the Annexures should be filled and submitted along with the technical bid (no row shall be left blank), else your offer is liable for rejection.

3. Offers with validity of less than 120 days and non-acceptance of LD

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening.Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**


P.G. ABINAV
Senior
Purchase
Yours faithfully,
MANAGER / PURCHASE
(FOSSIL BOILERS)
BHEL, TRICHY - 620 014



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2681400035 / 16.12.2014

23505

, RP clause, PBG & Payment terms, will lead to rejection of submitted offer.

4. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.

5. All clarifications may be sought at least ten days prior to tender due date, from the undersigned with due written request.

6. BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions covering RA are given in commercial terms and conditions (Annexure-A/Point no.16)

7. Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> or <http://tenders.gov.in>. You are requested to visit the website regularly for updates.

8. BHEL will consider MSME vendor as per Government guidelines.

9. Vendors are requested to avoid the following points while submitting the Bid Documents:

- Loose or spiral bound bid documents are not encouraged.
- In case of any corrections/overwriting in the tender documents, the same shall be duly attested by the bid submitter.

10. Vendors representative having proper ID proof and authorization letter shall attend the tender opening.

List of Attachments:

- PART-A for 20 Torch and STBW-each 3 pages
- PART-B fir 20 Torch and STBW-each 7 pags
- Commercial Terms and Conditions - Annexure-A
- Price Format-Annexure-B
- CA Certificate for MSE Vendors-Annexure-III

Enclosures:

"LD clause has to be confirmed without fail."

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


MANAGER / PURCHASE
FOSSIL BOILERS
Yours faithfully,
Purchase / MM / MFG
BHEL, TRICHY - 620 014.

PART A (20 TORCH)
QUALIFICATION CRITERIA
DESIGN,SUPPLY,INSTALLATION AND COMMISSIONING OF FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR 20 TORCH MPM/ BAY 1/ BUILDING 50 Quantity : 1 No.

SECTION - I

The BIDDER / VENDOR has to compulsorily meet the following requirements to get qualified for submitting an offer for FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR 20 TORCH MPM/ BAY 1/ BUILDING 50

S.No	Description	Vendor to specify details
1	Only those vendors (OEMs/Authorized Dealers), who have designed, supplied and commissioned same type of welding fume extraction systems having smoke/dust filter unit with accessories of make as specified in the Specification (PART B - 20 TORCH) of minimum capacity 12000 CMH in the past five years and such item should be working satisfactorily for a minimum period of one year after completion of commissioning as on the date of opening of this tender.	
2	The vendor should submit following details which are necessary for qualifying their offer.	
2.1	Name and contact details like email, phone number, fax no, etc. of the customer / company where the equipment commissioned.	
2.2	Along with Technical offer, the Vendor should submit performance certificate from minimum one customer for the satisfactory performance of the same, supplied to them in the customer's letter head. Suggestive Format Enclosed in SECTION - III	
3	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	Bidder to accept

SECTION - II

The BIDDER / VENDOR has to comply with the following, for accepting the Technical Offer for scrutiny by the Purchaser:

S. No.	REQUIREMENTS	VENDOR'S COMPLIANCE
1	The BIDDER / VENDOR shall submit the offer in TWO PARTS-Technical [with PART A & PART B] & Commercial and Price Bid.	
2	The offer shall contain a comparative statement of Technical Specifications given by BHEL and the offered details submitted by the Bidder, against each clause. Merely stating 'CONFIRMED' or 'COMPLIES' or 'YES' or 'NO-DEVIATION' or similar words wherever 'Vendor to Specify' details in the technical comparative statement may lead to disqualification of the Technical Offer.	
3	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought-Out-Items with copies of Product Catalogue to the extent possible.	
4	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation of the inclusion of all the accessories, tooling's, attachments, auxiliary parts, spares, consumables, etc. with the main and basic equipment, to meet the technical specification requirements.	
5	BIDDER has to indicate the Country of Origin for the supply of equipment.	

SECTION - III

PERFORMANCE CERTIFICATE
(On Customer's Letter Head)

1. Supplier of the machine :
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Application for which machine is used :
5. Installed capacity (in CMH) :
6. Performance of the Machine : Satisfactory / Good / Average /
(Strike off whichever is not applicable) Not Satisfactory
7. After Sales Service : Satisfactory / Good / Average /
Not Satisfactory
8. Any other remarks :

Date:

Signature & Seal of the Authority
Issuing the Performance Certificate

PART A (STBW)
QUALIFICATION CRITERIA
DESIGN,SUPPLY,INSTALLATION AND COMMISSIONING OF FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR STBW/ BAY A / BUILDING 50 QUANTITY : 6 Nos

SECTION - I

The BIDDER / VENDOR has to compulsorily meet the following requirements to get qualified for submitting an offer for FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR STBW/ BAY A / BUILDING 50.

S.No	Description	Vendor to specify details
1	Only those vendors (OEMs/Authorized Dealers), who have designed, supplied and commissioned same type of welding fume extraction systems having smoke/dust filter unit with accessories of make as specified in the Specification (PART B - STBW) of minimum capacity 2000 CMH in the past five years and such item should be working satisfactorily for a minimum period of one year after completion of commissioning as on the date of opening of this tender.	
2	The vendor should submit following details which are necessary for qualifying their offer.	
2.1	Name and contact details like email, phone number, fax no, etc of the customer / company where the equipment commissioned.	
2.2	Along with Technical offer, the Vendor should submit performance certificate from minimum one customer for the satisfactory performance of the same, supplied to them in the customer's letter head. Suggestive Format Enclosed in SECTION - III	
3	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	Bidder to accept

SECTION - II

The BIDDER / VENDOR has to comply with the following, for accepting the Technical Offer for scrutiny by the Purchaser:

S. No.	REQUIREMENTS	VENDOR'S COMPLIANCE
1	The BIDDER / VENDOR shall submit the offer in TWO PARTS-Technical [with PART A & PART B] & Commercial and Price Bid.	
2	The offer shall contain a comparative statement of Technical Specifications given by BHEL and the offered details submitted by the Bidder, against each clause. Merely stating 'CONFIRMED' or 'COMPLIES' or 'YES' or 'NO-DEVIATION' or similar words wherever 'Vendor to Specify' details in the technical comparative statement may lead to disqualification of the Technical Offer.	
3	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought-Out-Items with copies of Product Catalogue to the extent possible.	
4	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation of the inclusion of all the accessories, tooling's, attachments, auxiliary parts, spares, consumables, etc. with the main and basic equipment, to meet the technical specification requirements.	
5	BIDDER has to indicate the Country of Origin for the supply of equipment.	

SECTION - III

PERFORMANCE CERTIFICATE

(On Customer's Letter Head)

1. Supplier of the machine :
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Application for which machine is used :
5. Installed capacity (in CMH) :
6. Performance of the Machine : Satisfactory / Good / Average /
(Strike off whichever is not applicable) Not Satisfactory
7. After Sales Service : Satisfactory / Good / Average /
Not Satisfactory
8. Any other remarks :

Date:

Signature & Seal of the Authority
Issuing the Performance Certificate

PART B (20 TORCH)		
SPECIFICATION FOR FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR 20 TORCH MPM / BAY 1 / BUILDING 50		
1	Application	
	Fume/Smoke extraction system equipment's, suitable for handling 20000 CMH air flow rate with static pressure around 250 mm of water column with comprising of following principal system components / equipment's and accessories.	Bidder to specify with details.
2	Scope of Supply - Machine Configuration	
2.1	Fumes Extraction Blower of suitable capacity with Motor	1 set
2.2	Smoke/Dust filter unit with accessories	1 set
2.3	Connecting air ducts	1 set
3	Fumes Extraction Blower	Bidder to specify number of blowers based on application.
3.1	Purpose	To carry fumes with dust from welding source to above roof.
3.2	Drive	Direct/Belt Drive - Bidder to specify
3.3	Flow	To handle 20000 CMH at 250 mm of water column (around). Bidder to specify.
3.4	Temperature of fluid (air)	40 to 50 Deg C approx.
3.5	Type	SISW backward curved centrifugal fan with suitable flange/to be inbuilt. Bidder to be specify.
3.6	Efficiency of blower	Around 70% - 75% and Bidder to be specify.
3.7	Size	To be specified by the supplier
3.8	Delivery: Upward side & its flange size	To be specified by the supplier with 1 number of spare flange included along with scope of supply.
3.9	Blower accessories	Bidder to specify the below items with details suitable for ONE blower (or) To be inbuilt.
i	Inlet adapter around \varnothing 500 mm	1 Number
ii	Outlet adapter around \varnothing 500 mm	1 Number
iii	Guard net suitable for duct around \varnothing 500 mm	1 Number
iv	Flexible adapter suitable for duct around \varnothing 500 mm	2 Number
v	Suitable Vibration absorber	1 set

3.10	Blower Makes: Nederman/RoboVent/GEA/Kemper/ULT AG only acceptable.	Bidder to Confirm
4	Motor for the above specified fumes extraction blower	Bidder to Confirm/Specify
4.1	Motor Type	Three Phase Squirrel cage Induction motor with totally enclosed fan cooled.
4.2	Degree of protection (Motor)	IP55
4.3	Duty	S1 continuous
4.4	Class of insulation	Class F
4.5	Motor HP/KW, RPM shall be decided by the vendor	Bidder to specify
4.6	Motor make shall be ABB/ AB / Mitsubishi / Siemens	Bidder to Confirm
4.7	Motor Contactor (Make and Rating)	Bidder to specify
4.8	415V \pm 10%, 50HZ +/-3 Hz, 3 Phase AC [3 wire system without neutral] power supply will be provided by BHEL at a single point near the machine. All cables, connections, circuit breakers etc. required for connecting BHEL's power supply to the machine shall be in the scope of vendor.	Bidder to Confirm
4.9	Control voltage shall be of 24V	Bidder to Confirm
4.10	GA drawings and bill of materials to be submitted for approval before manufacturing of the panels	Bidder to Confirm
4.11	Technical catalogue furnishing the features of the controller and panel shall be enclosed with the offer	Bidder to specify
4.12	Tropicalization: All electrical / electronic equipment shall be tropicalized	Bidder to Confirm
4.13	All electrical & electronic control cabinets & panels should be dust and vermin proof	Bidder to Confirm
4.14	Vendor should ensure the proper earthing for the machine and its peripherals	Bidder to Confirm
4.15	Recommended set of spares for all Electrical and electronics are to be offered with details.	Bidder to Confirm
5	Smoke/Dust filter unit with accessories	Bidder to specify
5.1	Application	Dust and Fumes
5.2	Type	Molded cartridge filter with indoor/outdoor installation. Bidder to specify with critical dimensions.
5.3	Number of filter cartridges	Bidder to specify
5.4	Total filtration surface area in m ²	Minimum 250 m ² . Bidder to specify.

5.5	Airflow	To handle 20000 CMH at 250 mm of water column (around). Bidder to specify.
5.6	Each Filters shall be PTFE treated/laminated for handling fumes/fine particles, around 99 % at 0.5 µm with 10 m ² (around)	Bidder to specify
5.7	Dust container kit with easy disposal (Wheel/Hand trolley)	Bidder to specify
5.8	Air inlet with around ø 500mm outdoor\Suit the site	Bidder to specify
5.9	Air outlet with around ø 500mm outdoor\Suit the site	Bidder to specify
5.10	Electrical accessories	Bidder to specify
i	Maintenance Switch for blower starter	Bidder to specify
ii	Blower Starter (DOL or Star - Delta)	Bidder to specify
iii	Automatic On/Off system based on welding On/Off operation - Provision to be incorporated in the control panel.	Bidder to specify
iv	Fan Inverter (VFD) for reducing and increasing air flow	Bidder to specify
5.11	Weight of the unit	Bidder to specify
5.12	Compressed air pressure requirement for Purging/Self-cleaning mechanism of filters in Bar. BHEL will provide in 1" line at one point near machine around 5 Bar.	Bidder to specify.
5.13	Compressed air utilization/consumption for the unit in N Liter/Min.	Bidder to specify
5.14	Filter box pressure drop : Around 100 mmWC	Bidder to specify suitably based on function.
5.15	Filtration efficiency : Around 99%	Bidder to specify
5.16	Noise Level: Less than 75 db at 1 metre	Bidder to Confirm
5.17	Digital measuring device for fume outflow (preferred portable anemometer), blower capacity (preferred portable anemometer), static pressure (preferred vacuum gauge), and compressed air flow meter for purging, pressure gauges shall be used to measure/monitor its performance. (To be included in the scope of supply)	Bidder to specify
5.18	Make: Nederman/RoboVent/GEA/Kemper/ULT AG only acceptable.	Bidder to Confirm
6	Connecting air ducts	
6.1	Extraction air hoods + connecting air ducts in galvanized sheet steel fabricated construction complete with its flanges, flange packing / gasket and the fasteners of minimum grade 10.9.	Bidder to specify

6.2	Minimum GI 20G (1mm) ducting works joined with ISA (40 x 40 x 3) mm angle frames with four or five feet interval (or) To suit site requirement.	Bidder to specify
6.3	Makes of flexible hoses: Nederman/Masterflex/Norres/Totaku/GEA /Kemper/RoboVent/ULT AG	Bidder to specify
6.4	Standard MS angles, galvanized bolt/nuts of minimum grade 10.9/12.6 etc., are to be used.	Bidder to specify
6.5	All suction hoods shall have bolted construction wire mesh to prevent foreign materials entry and are to be made minimum 1mm thick SS - 304 materials.	Bidder to specify
7	Technical Offer	Bidder to Confirm
7.1	The Technical Offer shall contain the following :	
7.2	Complete Scope of Supply, including Main Equipment, All Accessories and Attachments, etc.	
7.3	List of Operating Spares, Commissioning Spares, Foundation / Anchoring Materials	Bidder to Specify/Confirm
7.4	Erection, Commissioning and Performance Prove-Out Details.	
7.5	Complete description of all systems & sub-systems forming part of the exhaust system.	
7.6	A schematic diagram showing the layout of the exhaust system. & associated systems with salient dimensions shall be submitted	
7.7	The operating sequence of the exhaust system with broad outline of various operations involved.	
7.8	The selection criteria of structural and machined components including material details for the rigidity of the system.	
8	Set of Documents to be submitted after placement of order for approval / verification before manufacturing within 4 weeks from PO/LOI:	Bidder to Confirm
8.1	General Lay-out of the machine with major and critical dimensions in line with the specification and Preliminary Foundation drawing.	
8.2	General Assembly drawing of the machine with bill of materials and critical dimensions	
8.3	Sub-assembly / Arrangement drawings with bill of materials and critical dimensions for all the sub-assemblies.	
8.4	Electrical Circuit with Bill of Materials giving specification and make of components used.	
8.5	Sequence of operation.	

8.6	Spares parts list with part number/drawing.	
8.7	Schedule of Erection and Commissioning shall be submitted with the offer.	
9	Foundation:	Bidder to Confirm
	Vendor shall submit the preliminary layout drawing details including static / dynamic load for getting BHEL's approval after PO/LOI. The layout should consist of all requirements pertaining to complete system including space requirement & any other accessories. BHEL shall construct complete foundation for the machine as per the Vendor's recommendation and drawing.	
10	General Note:	
10.1	Bought out items - Makes not specified elsewhere shall be used only after getting approval in the technical offer itself.	Bidder to confirm.
10.2	Impeller shall be balanced to ISO1940-1973 (e) class g 6.3 or its equivalent	Bidder to confirm.
10.3	Latest Energy efficient motor shall be provided as per IEC standards.	Bidder to confirm.
10.4	Dynamic balancing certificate shall be produced along with supply.	Bidder to confirm.
10.5	Performance test curve shall be supplied after testing in PDI.	Bidder to confirm.
10.6	Damper with wire mesh shall be provided to all blowers in the suction side	Bidder to confirm.
10.7	Sound level shall be around 75 db at 1 meter distance as per standards.	Bidder to specify
10.8	Blower Test certificate shall be supplied by the vendor while dispatch as per standards	Bidder to confirm.
10.9	One coat of red oxide primer and two coat of apple green paint (RAL 6011) shall be painted to the assembly after final inspection (Or) equivalent acceptable to BHEL while offer itself.	Bidder to specify
10.10	Pre dispatch inspection: Final Inspection by BHEL shall be offered at Vendors works before dispatch.	Bidder to specify
11	Manuals	Bidder to confirm.
i	3 sets of detailed manual with detailed assembly drawings(Hard bounded) along with bought out items complete details for the blowers shall supplied by the vendor while dispatch.(In English language)	

ii	1 set of detailed manual with detailed assembly drawings(Soft copy - CD format) along with bought out items complete details for the blowers shall supplied by the vendor while dispatch (In English language)	
12	Leveling & Anchoring System	Bidder to confirm.
	Complete anchoring system including foundation bolts, anchoring materials, fixators, leveling shoes etc. should be supplied along with scope.	
13	Packing:	Bidder to confirm.
	Sea worthy & rigid packing for all items and other supplied items to avoid any damage/loss in transit. When it is dispatched in containers, all small loose items shall be suitably packed in boxes.	
14	Guarantee:	Bidder to confirm.
	Guarantee required for 12 Months from the day of commissioning of system for workman ship, mechanical and electrical stability at BHEL or 18 months from dispatch whichever is earlier.	
15	Standards for Design and Manufacture :	Bidder to confirm.
	Standards for design and manufacture of the exhaust system shall be in accordance with ISO or JIS or DIN Or ACGIH .Any other standards shall be approved by BHEL before manufacturing. Anything unspecified but necessary for function shall be indicated by the supplier.	
16	BHEL WILL supply all consumables like power, water, oil, cotton waste, service air, welding rod, welding machine, welder, etc., at free of cost.	
17	Utility at BHEL Input Voltage: AC 415 V+/-10%, 50 Hz+/-3%, 3-Phase, 3 Wire system. Control Voltage: DC 24 V Shop Air Pressure: Around 5 Bar in 1" line.	Bidder to specify.
18	Delivery: Shall not exceed 12 - 16 Weeks from date of Purchase order/LOI.	Bidder to confirm.
19	Performance Prove-Out Details	
	To effectively remove the generated fumes from the source without affecting desired pre-function while running at rated blower capacity as specified elsewhere in the specification.	Bidder to Confirm

20	<u>IMPORTANT ASPECT OF THE CONTRACTOR:-</u>	
i	The offerer has to take care of all technical specifications and the scope of the work as above mentioned and clearly offer their technical bid for evaluation and approval.	Bidder to confirm.
ii	Supplier has to ensure that entire assembly shall be compact in design aspect without compromising the required function.	Bidder to confirm.
iii	The specification provided is absolutely for educative nature for the offered. The offerer is hereby directed to get acquainted with the BHEL Trichy area conditions before submitting the offer.	Bidder to confirm.
iv	Payment shall be made 100% after complete Erection & Commissioning.	Bidder to confirm.
v	Annexure I	Bidder to confirm/specify.

Annexure I

List of Operating Spares - To be included in the scope of supply

1. Filter cartridge - Required for 1 Unit - 1 Set
2. Flexible hoses with clamps - Required for 1 Unit - 10 meters
3. Solenoid valve for purging/self-cleaning - 1 Number in each type

Materials of constructions as follows

Thickness of ducting/suction hood: Minimum GI 20G (1mm)

Dimension of suction hood: Around 100 mm opening/ Suit the site, Length Around 1.5m - Slotted type construction for uniform suction throughout the length

Non compressible flexible hose size: Diameter Around 100mm/ Suit the site

Thickness of smoke/dust unit: Minimum 4 mm. Complete unit should be strong and stable welded completely in steel construction.

Exhaust ducting's shall have Rain water cowl, Bird screen, leak proof gaskets, provision for measuring fumes gases tapping.

PART B (STBW)		
SPECIFICATION FOR FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR STBW/ BAY A / BUILDING 50		
1	Application	
	Fume/Smoke extraction system equipment's, suitable for handling 2200 CMH air flow rate with static pressure around 250 mm of water column with comprising of following principal system components / equipment's and accessories.	Bidder to specify with details.
2	Scope of Supply - Machine Configuration	
2.1	Fumes Extraction Blower of suitable capacity with Motor	1 set
2.2	Smoke/Dust filter unit with accessories	1 set
2.3	Connecting air ducts	1 set
3	Fumes Extraction Blower	Bidder to specify number of blowers based on application.
3.1	Purpose	To carry fumes with dust from welding source to above roof.
3.2	Drive	Direct
3.3	Flow	To handle 2200 CMH at 250 mm of water column (around). Bidder to specify.
3.4	Temperature of fluid (air)	40 to 50 Deg C approx.
3.5	Type	SISW backward curved centrifugal fan with suitable flange/to be inbuilt. Bidder to be specify.
3.6	Efficiency of blower	Around 70% - 75% and Bidder to be specify.
3.7	Size	To be specified by the supplier
3.8	Delivery upward side & its flange size	To be specified by the supplier with 1 number of spare flange included along with scope of supply.
3.9	Blower accessories	Bidder to specify the below items with details suitable for ONE blower (or) To be inbuilt.
i	Inlet adapter around \varnothing 315 mm	1 Number
ii	Outlet adapter around \varnothing 315 mm	1 Number
iii	Guard net suitable for duct around \varnothing 315 mm	1 Number
iv	Flexible adapter suitable for duct around \varnothing 315 mm	2 Number
v	Suitable Vibration absorber	1 set

3.10	Blower Makes: Nederman/RoboVent/GEA/Kemper/ULT AG only acceptable.	Bidder to Confirm
4	Motor for the above specified fumes extraction blower	Bidder to Confirm
4.1	Motor Type	Three Phase Squirrel cage Induction motor with totally enclosed fan cooled.
4.2	Degree of protection (Motor)	IP55
4.3	Duty	S1 continuous
4.4	Class of insulation	Class F
4.5	Motor HP/KW, RPM shall be decided by the vendor	Bidder to specify
4.6	Motor make shall be ABB/ AB / Mitsubishi / Siemens	Bidder to Confirm
4.7	Motor Contactor (Make and Rating)	Bidder to specify
4.8	415V \pm 10%, 50HZ \pm 3 Hz, 3 Phase AC [3 wire system without neutral] power supply will be provided by BHEL at a single point near the machine. All cables, connections, circuit breakers etc. required for connecting BHEL's power supply to the machine shall be in the scope of vendor.	Bidder to Confirm
4.9	Control voltage shall be of 24V	Bidder to Confirm
4.10	GA drawings and bill of materials to be submitted for approval before manufacturing of the panels	Bidder to Confirm
4.11	Technical catalogue furnishing the features of the controller and panel shall be enclosed with the offer	Bidder to specify
4.12	Tropicalization: All electrical / electronic equipment shall be tropicalized	Bidder to Confirm
4.13	All electrical & electronic control cabinets & panels should be dust and vermin proof	Bidder to Confirm
4.14	Vendor should ensure the proper earthing for the machine and its peripherals	Bidder to Confirm
4.15	Recommended set of spares for all Electrical and electronics are to be offered with details.	Bidder to Confirm
5	Smoke/Dust filter unit with accessories	Bidder to specify
5.1	Application	Dust and Fumes
5.2	Type	Molded cartridge filter with indoor/outdoor installation. Bidder to specify with critical dimensions.
5.3	Number of filter cartridges	Bidder to specify
5.4	Total filtration surface area in m ²	Minimum 30 m ²

5.5	Airflow	To handle 2200 CMH at 250 mm of water column (around). Bidder to specify.
5.6	Each Filters shall be PTFE treated/laminated for handling fumes/fine particles, around 99 % at 0.5 µm with 10 m ² (around)	Bidder to specify
5.7	Dust container kit with easy disposal	Bidder to specify
5.8	Air inlet with around ø 315mm outdoor/To suit site	Bidder to specify
5.9	Air outlet with around ø 315mm outdoor/Rectangular/To suit the site	Bidder to specify
5.10	Electrical accessories	Bidder to specify
i	Maintenance Switch for blower starter	Bidder to specify
ii	Blower Starter (DOL or Star - Delta)	Bidder to specify
iii	Automatic On/Off system based on welding On/Off operation - Provision to be incorporated in the control panel.	Bidder to specify
iv	Fan Inverter (VFD) for reducing and increasing air flow	Bidder to specify
5.11	Weight of the unit	Bidder to specify
5.12	Compressed air pressure requirement for Purging/Self-cleaning mechanism of filters in Bar. BHEL will provide in 1" line at one point near machine around 5 Bar.	Bidder to specify.
5.13	Compressed air utilization/consumption for the unit in N Liter/Min.	Bidder to specify
5.14	Filter box pressure drop : Around 100 mmWC	Bidder to specify suitably based on function.
5.15	Filtration efficiency : Around 99%	Bidder to specify
5.16	Noise Level: Less than 75 db at 1 metre	Bidder to Confirm
5.17	Digital measuring device for fume outflow (preferred portable anemometer), blower capacity (preferred portable anemometer), static pressure (preferred vacuum gauge), and compressed air flow meter for purging, pressure gauges shall be used to measure/monitor its performance. (To be included in the scope of supply)	Bidder to specify
5.18	Make: Nederman/RoboVent/GEA/Kemper/ULT AG only acceptable.	Bidder to Confirm
6	Connecting air ducts	
6.1	Extraction air hoods + connecting air ducts in galvanized sheet steel fabricated construction complete with its flanges, flange packing / gasket and the fasteners of minimum grade 10.9.	Bidder to specify

6.2	Minimum GI 20G (1mm) ducting works joined with ISA (40 x 40 x 3) mm angle frames with four or five feet interval.	Bidder to specify
6.3	Makes of flexible hoses shall be Nederman/Masterflex/Norres/Totaku/GEA /Kemper/RoboVent/ULT AG	Bidder to Confirm
6.4	Standard MS angles, galvanized bolt/nuts of minimum grade 10.9/12.6 etc., are to be used.	Bidder to specify
6.5	All suction hoods shall have bolted construction wire mesh to prevent foreign materials entry and are to be made minimum 1mm thick SS - 304 materials.	Bidder to specify
7	Technical Offer	Bidder to Confirm
7.1	The Technical Offer shall contain the following :	
7.2	Complete Scope of Supply, including Main Equipment, All Accessories and Attachments, etc.	
7.3	List of Operating Spares, Commissioning Spares, Foundation / Anchoring Materials	Bidder to Specify/Confirm
7.4	Erection, Commissioning and Performance Prove-Out Details.	
7.5	Complete description of all systems & sub-systems forming part of the exhaust system.	
7.6	A schematic diagram showing the layout of the exhaust system. & associated systems with salient dimensions shall be submitted	
7.7	The operating sequence of the exhaust system with broad outline of various operations involved.	
7.8	The selection criteria of structural and machined components including material details for the rigidity of the system.	
8	Set of Documents to be submitted after placement of order for approval / verification before manufacturing within 4 weeks from PO/LOI:	Bidder to Confirm
8.1	General Lay-out of the machine with major and critical dimensions in line with the specification and Preliminary Foundation drawing.	
8.2	General Assembly drawing of the machine with bill of materials and critical dimensions	
8.3	Sub-assembly / Arrangement drawings with bill of materials and critical dimensions for all the sub-assemblies.	
8.4	Electrical Circuit with Bill of Materials giving specification and make of components used.	
8.5	Sequence of operation.	

8.6	Spares parts list with part number/drawing.	
8.7	Schedule of Erection and Commissioning shall be submitted with the offer.	
9	Foundation:	Bidder to Confirm
	Vendor shall submit the preliminary layout drawing details including static / dynamic load for getting BHEL's approval after PO/LOI. The layout should consist of all requirements pertaining to complete system including space requirement & any other accessories. BHEL shall construct complete foundation for the machine as per the Vendor's recommendation and drawing.	
10	General Note:	
10.1	Bought out items - Makes not specified elsewhere shall be used only after getting approval in the technical offer itself.	Bidder to confirm.
10.2	Impeller shall be balanced to ISO1940-1973 (e) class g 6.3 or its equivalent	Bidder to confirm.
10.3	Latest Energy efficient motor shall be provided as per IEC standards.	Bidder to confirm.
10.4	Dynamic balancing certificate shall be produced along with supply.	Bidder to confirm.
10.5	Performance test curve shall be supplied after testing in PDI.	Bidder to confirm.
10.6	Damper with wire mesh shall be provided to all blowers in the suction side	Bidder to confirm.
10.7	Sound level shall be around 75 db at 1 meter distance as per standards.	Bidder to specify
10.8	Blower Test certificate shall be supplied by the vendor while dispatch as per standards	Bidder to confirm.
10.9	One coat of red oxide primer and two coat of apple green paint (RAL 6011) shall be painted to the assembly after final inspection (Or) equivalent acceptable to BHEL while offer itself.	Bidder to specify
10.10	Pre dispatch inspection: Final Inspection by BHEL shall be offered at Vendors works before dispatch.	Bidder to specify
11	Manuals	Bidder to confirm.
i	3 sets of detailed manual with detailed assembly drawings(Hard bounded) along with bought out items complete details for the blowers shall supplied by the vendor while dispatch.(In English language)	

ii	1 set of detailed manual with detailed assembly drawings(Soft copy - CD format) along with bought out items complete details for the blowers shall supplied by the vendor while dispatch (In English language)	
12	Leveling & Anchoring System	Bidder to confirm.
	Complete anchoring system including foundation bolts, anchoring materials, fixators, leveling shoes etc. should be supplied along with scope.	
13	Packing:	Bidder to confirm.
	Sea worthy & rigid packing for all items and other supplied items to avoid any damage/loss in transit. When it is dispatched in containers, all small loose items shall be suitably packed in boxes.	
14	Guarantee:	Bidder to confirm.
	Guarantee required for 12 Months from the day of commissioning of system for workman ship, mechanical and electrical stability at BHEL or 18 months from dispatch whichever is earlier.	
15	Standards for Design and Manufacture :	Bidder to confirm.
	Standards for design and manufacture of the exhaust system shall be in accordance with ISO or JIS or DIN Or ACGIH .Any other standards shall be approved by BHEL before manufacturing. Anything unspecified but necessary for function shall be indicated by the supplier.	
16	BHEL WILL supply all consumables like power, water, oil, cotton waste, service air, welding rod, welding machine, welder, etc., at free of cost.	
17	Utility at BHEL Input Voltage: AC 415 V+/-10%, 50 Hz+/-3%, 3-Phase, 3 Wire system. Control Voltage: DC 24 V Shop Air Pressure: Around 5 Bar in 1" line.	Bidder to specify.
18	Delivery: Shall not exceed 12 - 16 Weeks from date of Purchase order/LOI.	Bidder to confirm.

19	Performance Prove-Out Details	
	To effectively remove the generated fumes from the source without affecting desired pre-function while running at rated blower capacity as specified elsewhere in the specification.	Bidder to Confirm
20	<u>IMPORTANT ASPECT OF THE CONTRACTOR:-</u>	
i	The offerer has to take care of all technical specifications and the scope of the work as above mentioned and clearly offer their technical bid for evaluation and approval.	Bidder to confirm.
ii	Supplier has to ensure that entire assembly shall be compact in design aspect without compromising the required function.	Bidder to confirm.
iii	The specification provided is absolutely for educative nature for the offered. The offerer is hereby directed to get acquainted with the BHEL Trichy area conditions before submitting the offer.	Bidder to confirm.
iv	Payment shall be made 100% after complete Erection & Commissioning.	Bidder to confirm.
v	Annexure I	Bidder to confirm/specify.

Annexure I

List of Operating Spares - To be included in the scope of supply

1. Filter cartridge - Required for 1 Unit - 1 Set
2. Flexible hoses with clamps - Required for 1 Unit - 10 meters
3. Solenoid valve for purging/self-cleaning - 1 Number in each type

Materials of constructions as follow

Thickness of ducting: Minimum GI 20G (1mm)

Dimension of suction hood: Around 180 x 180 mm opening/Suit the site

Non compressible flexible hose size: Diameter Around 100mm/ Suit the site

Thickness of filter/dust unit: Minimum 4 mm. Complete unit should be strong and stable welded completely in steel construction.

Exhaust ducting's shall have Rain water cowl, Bird screen, leak proof gaskets, provision for measuring fumes gases tapping.

BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI
CAPITAL PURCHASE

Annexure-A

ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE VENDORS.

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed herein, BHEL reserves the right to reject such offers)

CHECK-LIST FOR VENDORS

SI No	DESCRIPTION
1.	<p>The Bidders shall submit their offer in TWO INNER ENVELOPES as indicated below which shall be sealed in one outer envelope.</p> <ul style="list-style-type: none"> ❖ Envelope I: This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "Part I - Technical and commercial bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder. ❖ Envelope II: This sealed envelope should contain price details. This envelope should be clearly marked "Part II - Price bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder. This part should contain the schedule of price particulars and must be co-related to the technical details provided in Part I. <p>All the two envelopes (Part I&II) shall be put in one cover, duly sealed, super scribing as "Part I and Part II of Enquiry No., due date of opening" and the address and reference of the Bidder. The offer received without the above guidelines, will not be considered for opening.</p> <p>The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered. Tender should not be addressed to any Individual's name but only by designation to:</p> <p style="text-align: center;">DGM / CAPITAL PURCHASE / MFG 24 BUILDING, 4TH FLOOR BHARAT HEAVY ELECTRICALS LIMITED HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620 014 TAMIL NADU, INDIA</p> <p>Tenders should be free from CORRECTIONS AND ERASURES. Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. In case of any difference between amount quoted in words and figures, amount quoted in words shall prevail.</p> <p>Offers should be in ENGLISH and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in ENGLISH or otherwise, the offers will not be considered.</p>
2.	<p><u>OPENING OF TENDERS</u></p> <p>The Part I- Technical & commercial bid would be opened on the Tender opening date.</p> <p>Part-II, Price bid of technically suitable Bidders alone would be opened after complete evaluation of Part-I. Hence the Bidders are required to submit their best competitive price in the price bid in a sealed cover (Part-II). In case of necessity BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions covering RA are given in this Annexure- I (Point no.16).</p> <p>Date and time of Price Bid (Part-II) opening / RA conducting date shall be intimated to the technically and commercially acceptable bidders only. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - Price Bid/ RA</p>
3.	<p><u>TAXES AND DUTIES :</u></p> <p>All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which the purchaser will not be liable for payment of such Taxes and Duties. Our TIN No. 33243560005, TNGST No. 3560005, CST. No. 239383 Dt. 11-06-1991 & BHEL ECC No. AAACB4146PXM012, Service Tax Reg No (STC)- AAACB4146PST006. Assessment circle Tiruverambur.</p> <p>Cenvat credit & VAT credit (for Indian Bidders only): If any Excise Duty is payable, the chapter head / sub-head reference and the rate of the duty should be quoted. If the tenderer is availing CENVAT credit for his input materials, the effect of proforma credit should be passed on to the purchaser</p> <p>Income Tax applicable Any service charges payable towards supervision of E&C, training, performance prove-out etc., will be released after deduction of Income Tax as per Indian Income Tax Act / as per the Govt. of India rules and TDS certificate will be issued by BHEL for such deductions. Applicable service tax on E&C charges will be payable extra. The liability of depositing the same to the Govt. will be of the supplier</p>

No row shall be left blank. Please indicate NA, in case the item is “not applicable”		Vendor's confirmation
	Validity: Validity of the offer should be 120 days from the date of tender opening.	
4.	<p>Release of Purchase Order:</p> <ul style="list-style-type: none"> ➤ Orders will be placed respective L1 vendor for each line items. ➤ Separate orders for supply and service will be released on the successful L1 vendor for each line items. (service order released only in the case of, Installation / erection / commissioning portion are applicable on tender scope and quoted separate charge for the same by vendor) 	
5.	<p>Payment terms for Supply Portion 80% Payment after receipt and acceptance of material and balance 20% within 45-90 days after receipt, acceptance and commissioning of supply material against submission of 10%PBG for order value.</p> <p>Installation & Commissioning Portion (if applicable only): 100% of the Erection / commissioning charges (in case contract involves erection/Installation /commissioning) shall be paid only on completion of such erection / commissioning at BHEL</p> <p style="color: red;">Any deviation in the above payment term will attract loading as mentioned below. “Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.</p>	
6.	<p>Performance Bank Guarantee (PBG): The Bidder, in the event of an order, should furnish a Bank Guarantee from an Indian Bank approved by BHEL, at no extra cost in a format prescribed by BHEL, along with the order, for an amount equivalent to 10% (Ten percent) of the value of the contract. The PBG shall be valid for a period of 18 months from the date of dispatch or 12 months from the date of receipt / acceptance / commissioning of the equipment at BHEL, Tiruchi whichever is more, with a claim period of two months.</p> <p>The Performance Bank Guarantee shall be obtained from any one of the following banks which is a member bank in our consortium of banks.</p> <p>LIST OF CONSORTIUM BANKS 1.DEUTSCHE BANK 2.HDFC BANK 3.ANZ GRINDLAYS BANK 4.CITI BANK 5.STANDARD CHARTERED BANK 6.BANK OF AMERICA 7.ABN AMRO BANK 8.IDBI LTD 9.ICICI BANK LTD 10.THE HONGKONG AND SHANGHAI BANKING .CORPORATION LTD.</p> <p>LIST OF NATIONALISED BANKS 1.ALLAHABAD BANK 2.ANDHRA BANK 3.BANK OF INDIA 4.BANK OF BARODA 5.BANK OF MAHARASTRA 6.BHARATH OVERSEAS BANK 7.CANARA BANK 8.CENTRAL BANK OF INDIA 9.CORPORATION BANK 10.DENA BANK 11.INDIAN BANK 12.INDIAN OVERSEAS BANK 13.OREINTAL BANK OF COMMERCE 14.PUNJAB NATIONAL BANK 15.PUNJAB & SIND BANK 16.STATE BANK OF INDIA 17.STATE BANK OF TRAVANCORE 18.STATE BANK OF MYSORE 19.STATE BANK OF BIKANER & JAIPUR 20.STATE BANK OF HYDERABAD 21.STATE BANK OF PATIALA 22.STATE BANK OF MAHARASTRA 23.STATE BANK OF SOURASTRA(SBI-13.09.08) 24.SYNDICATE BANK 25.UCO BANK 26.UNION BANK OF INDIA 27.UNITED BANK OF INDIA 28.VIJAYA BANK</p> <p style="color: red;">If PBG is issued by a Foreign counter part of the BHEL consortium Indian Bank, in case of claim against the PBG . it will be lodged in any one of the Indian counters of the Foreign Bank which issued the PBG.</p>	
7.	<p>Liquidated damages (LD): The delivery of the goods specified in the purchase order should be made within the time prescribed. LD for delay in 'Supply' and/or 'I&C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'I &C'. Where the seller supplies or dispatches the goods, beyond the delivery period Liquidated damages shall be applicable 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value.</p> <p>The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + I &C) in I &C subject to a maximum of 10% of total PO value (Supply + I&C).</p> <p>For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.</p> <p>Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).</p>	
8.	<p>Risk Purchase: Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available from the best and the nearest available substitute. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.</p>	
9.	<p>Delivery terms and evaluation process: Indian Bidders should submit their offer on FOR BHEL, Tiruchy basis. Packing & Forwarding and Freight & Insurance charges from works to BHEL, Tiruchy to be indicated separately if extra from basic rate. Applicable % of ED & Sales Tax , Commissioning Charges should be clearly indicated.</p> <p style="color: yellow;">Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL)</p>	
10.	<p>Guarantee: Vendors shall provide a guarantee for a period of 12 months from the date of commissioning of the equipment or 18 months from date of supply, whichever is earlier. The date of B/L or AWB shall be taken as the date of supply.Also, a PBG has to be given which shall cover the guarantee period (with additional 2 months as claim period). Normally No deviation permitted and the deviated offers are liable for rejection.</p>	

11.	<p>Short shipment / Warranty replacement: In case of any short shipment in the main equipment / spares, Customs Duty levied on such supplies, shall be borne by the supplier. Any warranty replacement during the warrantee period shall be on FOR, BHEL, Tiruchirappalli, basis.</p>	
12.	<p>Inspection & Testing: All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at BHEL stores or at any other place in India indicated by BHEL as the case may be. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools, the machine would be inspected and proved at supplier's works prior to dispatch however, final inspection and acceptance of the machine will be carried after installation of the machine at BHEL, Tiruchirappalli.</p>	
13.	<p>Test certificates / Operating and Maintenance manuals: The Bidders shall clearly mention in their offer, that Test Certificates and Operating Maintenance Manuals, etc., as called for in the Technical Specification, in the required number of copies will be provided at no extra cost.</p>	
14.	<p>Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Site/Stores with Consignee copy attached. In this case Loading will be 3% on the offered value. Offers of indigenous Suppliers with payment terms as LC/Advance Payment are liable for rejection.</p>	
15.	<p>BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</p>	
16.	<p>Reverse Auction (RA): BHEL reserves the right to conduct on-line internet Reverse Auction ie. ONLINE BIDDING (THROUGH A SERVICE PROVIDER) for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA are shown below Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry.</p> <ol style="list-style-type: none"> For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained. Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event. BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction Reverse auction will be conducted on scheduled date & time. At the end of Reverse Auction event, the lowest bidder value will be known on the network. The lowest bidder has to Fax/e-mail the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price Bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice. BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction <u>BHEL reserves the right not to consider offers from vendors not complying with the RA process for finalization of the enquiry.</u> If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted. <p>In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.</p>	
17.	<p><u>Special Provisions for Micro and Small Enterprises (MSE)</u></p> <ol style="list-style-type: none"> 20% of the tendered quantity is earmarked for MSE suppliers in this tender. Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs. Incase MSE vendor participating in the tender quotes within the price band of L1+15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately. MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II (Entrepreneur Memorandum Part II) certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed as per Annexure - III) applicable for the relevant financial year (latest audited), certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Offer/s received without these documents will lead to consideration of their offer at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier. 	

18.	<ul style="list-style-type: none"> ➤ Point to point confirmation for the Technical Specification enclosed to be provided. If there are any deviations, the same should be clearly specified. Offers received without confirmation to our specifications will be liable for rejection. If needed additional sheets shall be used. ➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipment's will not be accepted. Incomplete offers will not be considered for further processing Fixed price: ➤ BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units. ➤ BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL. ➤ All Equipment's / Services including concerned personnel for carrying out the erection and commissioning of the equipment shall be arranged by the vendor. If any Services are availed from BHEL, it is only on chargeable basis unless otherwise specified. ➤ The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost ➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit. 	
19.	Company Details & Contact	
	Full Address of the company for future correspondence. (Copy of address proof & PAN card shall be attached along with Part-I)	
	Company Email ID:	Phone No.:
	Fax No	PAN No
	CST /TIN No	Service Tax No.
	Name of the contact person:	Mobile No.:
	e-mail ID	
20.	TO BE CONFIRMED BY VENDOR	
	Country of origin:	
	Station of dispatch/Port of Shipment	
	Delivery Terms (For destination or Ex-works)	
21.	Packing & Forwarding Charges, if any (in % or Lumpsum) ie. extra from basic rate	
	% of Excise Duty with cess	
	% of TAX (CST/VAT) (TNGST with FORM-17 or CST with C-FORM)	
	(If applicable only)	
	Installation & commissioning charge is inclusive (or) exclusive on basic rate	
	Service tax applicable extra or not	
	Freight & Transit Insurance charges (if any, in Lumpsum (or) percentage) from Dispatching station to BHEL Tiruchirappalli, (Note:If the delivery terms is Ex Works the materials has to be sent through BHEL approved carrier only, in this case the Freight & Insurance will be borne by BHEL)	
22.	Delivery from the date of Letter of Intent / Purchase Order. (This should be inclusive of Order acceptance, drawing approval and time period required for receiving goods at BHEL Trichy etc.,	
23.	Weight & Cubage of package: Approximate Net weight of the total consignment: Approximate Gross weight of the total consignment: Approximate volume of the total consignment:	
<p>For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail <pgavictor@bheltry.co.in></p>		

NOTE

- a) Your specific acceptance to our Payment terms, LD, Risk Purchase Clause & Submission of PBG for 10% of the order value are essential for consideration of your offer. Otherwise your offer is liable for rejection.
- b) No row shall be left blank. Please indicate NA, in case the item is "not applicable"

Declaration:-

I/We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the Tender and confirm that our offer has been made in line with the same.

Name:

Signature with date:

(AFFIX OFFICIAL SEAL HERE)

Designation:

(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)

MODEL PRICE BID FORMAT FOR INDIAN BIDDERS

Enquiry No. & Date:

Bidder's Offer No. & Date:

Sl No	Description of item	Unit (SET /No)	QTY	Rate /Qty in Rs. (excluding of all taxes)	VAT/CST in % (TNGST with FORM-17 or CST with C-FORM)	ED in %	Service Tax in %	Total Value in Rs. (inclusive of all taxes)
	Supply portion							
	Service portion- (ie. available on tender scope and if exclusive from above basic price)							
	Packing & Forwarding charges (if any) in percentage (or) Lumpsum							
	FOR Dispatching station value in Rs.							
	Percentage of Freight & transit insurance charges, if any (Lumpsum or %) Freight & Insurance charges from Dispatching station to BHEL, Tiruchirappalli (Note:If the delivery terms is Ex Works the materials has to be sent through BHEL approved carrier only, in this case the freight & Insurane will be borne by BHEL)							
	Approximate Net weight of the total consignment							
	Approximate Gross weight of the total consignment							
	Approximate Dimensions of the Consignment							

Signature & Seal of Vendor

The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "not applicable"

Certificate by Chartered Accountant on letter head

This is to Certify that M/S
(hereinafter referred to as 'company') having its registered office at
is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part-II) dtd:.....,
Category: (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on
date..... as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost
excluding land and building and the items specified by the Ministry of Small Scale Industries vide its
notification No.S.O.1722(E) dated October 5, 2006 :
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and
furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED
Act, 2006:
Rs.....Lacs

The above investment of Rs.....Lacs is within permissible limit of
Rs.....Lacs forMicro / Small (~~Strike off which is not applicable~~)
Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant